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Certificate No. TC-5348

TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	CP-RW-2018-02-06-08	Date: 08-02-18
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.	
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.	
Customer Reference	:	BBMP/EE/DD/WO/84/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-02-18	
Sample ID No	:	2018-02-06-08/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	06-02-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.7	299.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.0	66.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	237.1	233.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	20.7	22.1
6	Aggregate impact value (Mean of two tests)	Pecentage	21.4	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-02-01-01** **Date: 03-02-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-18
Sample ID No	:	2018-02-01-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	01-02-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**65**	60 to 70
2	Softening Point, °C	**42.4**	Min. 40°C
3	Ductility, cm	**87**	Min. 75cm
4	Flash point, °C	**324**	Min. 220°C
	Fire point, °C	**352**	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-01-16-10** **Date: 19-01-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	16-01-18
Oven Dry Weight	:	10120 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	996	996	9.8	90.2	80-100
26.5	1686	2682	26.5	73.5	55-90
9.5	1292	3974	39.3	60.7	35-65
4.75	1490	5464	54.0	46.0	25-55
2.36	1764	7228	71.4	28.6	20-40
0.425	1666	8894	87.9	12.1	10-25
0.075	896	9790	96.7	3.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.80%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TP/01

Date: 26/02/2018

Lab ID	:	CP-2018-01-31-09
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-01-18
Sample ID No	:	2018-01-31-09 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	29/01/2018	26/02/2018	149.22 X 150.44 X 150.47	22449	8.147	496.1	22.1	21.6
2	M20 Concrete	M20	29/01/2018	26/02/2018	149.22 X 150.33 X 150.98	22432	8.165	489.0	21.8	
3	M20 Concrete	M20	29/01/2018	26/02/2018	150.22 X 150.33 X 150.78	22583	8.172	472.0	20.9	

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Certificate No. TC-6548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-31-09** **Date: 05/02/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.

Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/84/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-18

Sample ID No : 2018-01-31-09 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	29/01/2018	05/02/2018	150.20 X 150.22 X 150.20	22563	8.330	397.1	17.6	17.8
2	M20 Concrete	M20	29/01/2018	05/02/2018	150.15 X 150.15 X 150.13	22545	8.214	408.1	18.1	
3	M20 Concrete	M20	29/01/2018	05/02/2018	150.20 X 150.24 X 150.28	22566	8.420	401.7	17.8	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-22-12**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore. **Date: 27-01-18**
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-12 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	23/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.316	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.322	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.318	4476	81.5	18.2	16.9	21.2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-22-12** **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 1st, 2nd and 3rd cross Manjunatha nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-12 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	645	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	541	683	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	576	695	20.0%	Satisfactory	Satisfactory

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